



P1-PORTER MULTI-PURPOSE CASSETTE SYSTEM

MODEL P1-PORTER

high-speed compact version



FEATURES

- With 173 HP, this high speed compact 1 675 mm (5' 6") wide version of the DUX P1-Porter is extremely well-suited for steep ramps and narrow-vein mining
- Field-proven system with interchangeable multi-purpose cassettes provides outstanding flexibility compared to conventional utility equipment built for one specific task
- Multi-purpose cassettes can be interchanged smoothly and safely in minutes using the DUX P1-Porter (prime mover)
- Electronically controlled engine reduces fuel consumption and ventilation requirement
- Fail-safe SAHR (Spring Applied Hydraulic Release) emergency/parking brake system
- Centralized service points and modular design for easy service access and fast component exchange
- Excellent service and parts back-up worldwide

WEIGHTS

| | | |
|--------------------------------------|----------------|------------|
| P1-Porter only..... | 8 963 kg..... | 19,760 lb. |
| P1-Porter with Scissor Cassette | 13 230 kg..... | 29,167 lb. |

OVERALL DIMENSIONS

Length:

| | | |
|-------------------------------------|---------------|--------|
| P1-Porter only..... | 6 935 mm..... | 22' 9" |
| P1-Porter with Scissor Cassette ... | 7 165 mm..... | 23' 6" |
| Width..... | 1 675 mm..... | 5' 6" |

TURNING RADIUS AT 44°

| | | |
|--------------|---------------|---------|
| Inside..... | 3 940 mm..... | 12' 11" |
| Outside..... | 5 895 mm..... | 19' 4" |

MULTI-PURPOSE CASSETTES

The DUX P1-Porter is available with a wide range of multi-purpose cassettes including:

FLATBED • CRANE BOOM • SCISSOR • FUEL/LUBE • FUEL • PERSONNEL • REMIX • WATER • EXPLOSIVES TRANSPORT • BULK EMULSION • MAINTENANCE • DUMP BODY

The DUX line of multi-purpose cassettes is continually expanding to meet new customer requirements. Contact DUX for further information on custom cassette arrangements.



P1-Porter shown with Scissor Cassette.

DUX Model P1-Porter (high-speed compact version)

TECHNICAL SPECIFICATIONS*

Engine

Make and model Mercedes OM904LA with Electronic Management System
Derated power 129 kW (173 HP) @ 2200 RPM
Cylinders 4
Starter 24-volt
Air intake cleaner Donaldson 2-stage dry type with service gauge
Exhaust system Nett MD-Series Diesel Oxidation Converter (DOC) with heat blanket and exhaust pipe protection
Cooling Large-sized cooling package
Emission standard Meets EPA Tier 3, Euro Stage IIIA

Transmission with Integrated Torque Converter

Make and model Dana SOH LHR32000 series with integrated torque converter and flex plate drive
Speeds 4 in forward and in reverse

Axles

Make and model Dana SOH 176 planetary with internal multiple wet-type 4-wheel disc brakes

Tires

– Bridgestone 12.00-20, 18 Ply Tube-Type E-3 mining tires

Brakes

Service 4-wheel power multi-internal wet disc, dual hydraulic power control with accumulator back-up
Emergency/parking Fail-safe 100% back-up SAHR (Spring Applied Hydraulic Release) multi-internal wet 4 wheel brakes
Automatic Brake Applies brake in case of engine failure or drop in transmission clutch and/or brake accumulator pressure

Steering

– Articulated frame hydraulic power steering, hydraulic pilot monostick steering control and cushion valve
– Double acting steering cylinders (2)
– $\pm 44^\circ$ steering angle each way for a total of 88°

Oscillation

– $\pm 8^\circ$ center of oscillation for a total of 16°
– Large sized, heavy-duty roller bearing for minimum maintenance and a smooth ride, 4-wheel ground contact guaranteed

Frames and Pins

– Articulated heavy-duty frames made to withstand the high impact and torsional stress associated with mining application
– Frames come with five-year unlimited hour guarantee
– Large high tensile alloy steel pins in replaceable anchor bushings

Operator Compartment

– Side seated for maximum visibility and bi-directional operation
– Heavy-duty adjustable suspension seat with arm rests and retractable seat belt
– Co-driver seat with seat belt
– All controls and gauges located within easy reach and view of operator

Hydraulic System

– Heavy-duty double acting protected steering cylinders (2) with hard chrome plated stems
– Heavy-duty PTO driven gear-type pumps driven from converter
– Suction filter
– Inline high pressure filter with service gauge
– $\frac{3}{4}$ " inside diameter and over hoses that are four-spiral wire braid and have crimped hose end swivel fittings
– Hose bulk-head located mid-ship

Tank Capacities

Fuel 170 L 45 US gallons
Hydraulic oil 170 L 45 US gallons

Electrical System

– 24-volt negative ground
– 80 amp alternator with integrated sealed voltage regulator
– Main electric cut-off switch
– Heat resistant, waterproof, sealed electric PMA wire harness
– Sealed junction box and stainless steel instrument panel box with multi-stem connectors
– Semi-automatic circuit breakers
– Front (2), rear (2), and all-directional (1) LED high-intensity lights
– Heavy-duty batteries (2)
– Signal horn and audible
– Adjustable back-up alarm

Standard Features

Automatic engine shut-off at low oil pressure and high temperature • Hourmeter • All necessary gauges for engine, converter and brake pressure • Neutral engine start protection • Centralized manual lubrication mid-ship • Articulation safety bar • Triangular rear reflectors (2) • Parts/Operator/Maintenance manuals • Compliant with MSHA, CANMET and CE regulation

Options

Smaller engine • Dana SOH HR24000 series transmission • FOPS/ROPS canopy or fully equipped operator cab • Orbitrol valve wheel steering • Automatic lubrication system • Fire suppression system • Intec video system • OTHER OPTIONS ON REQUEST



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